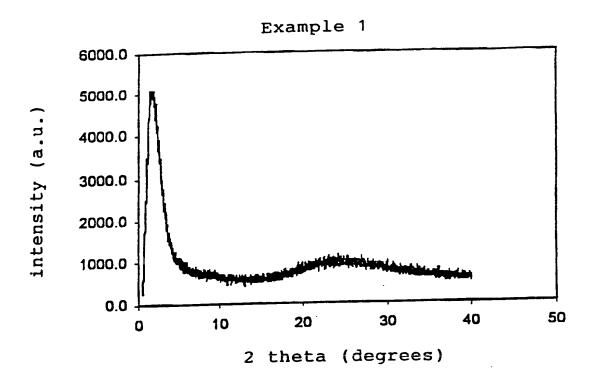
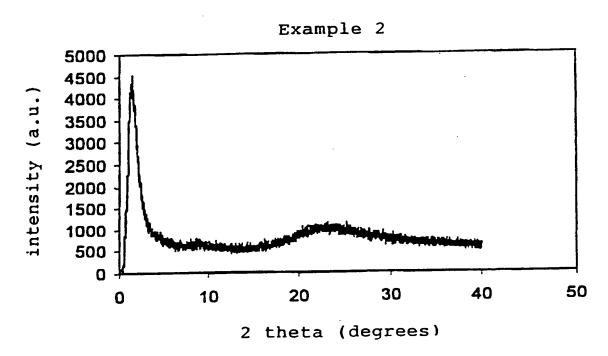
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FIG. 1A



F1 G. 2 A



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FIG. 1B

Figure 1B: BJH Desorption dV/dlogD curve for the sample prepared according to example 1.

> Started: 03/29/99 08:55:09 Completed: 03/30/99 18:09:56 Report Time: 03/31/99 08:37:39

Sample Weight: 0.1270 g Warm Freespace: 18.5791 cm³

Equil. Interval: 10 secs

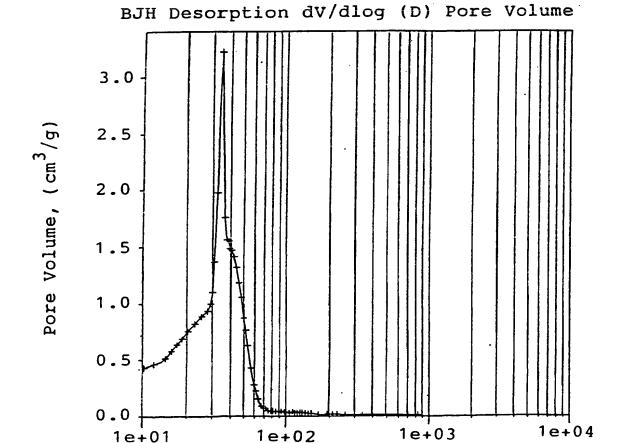
N2 Analysis Adsorptive:

> 77.30 K Analysis Bath:

Thermal Correction: No No Smoothed Pressures:

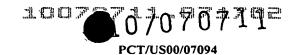
57.1148 cm³ Cold Freespace:

 $5.00 \text{ cm}^3/\text{g STP}$ Low Pressure Dose:



Pore Diameter, (A)

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Figure 1C: Horvath-Kawazoe differential pore volume plot with slit pore geometry for the sample prepared according to example 1.

> Started: 03/29/99 08:55:09 Completed: 03/30/99 18:09:56 Report Time: 07/14/99 09:15:22

Sample Weight: 0.1270 g Warm Freespace: 18.5791 cm

Equil. Interval: 10 secs

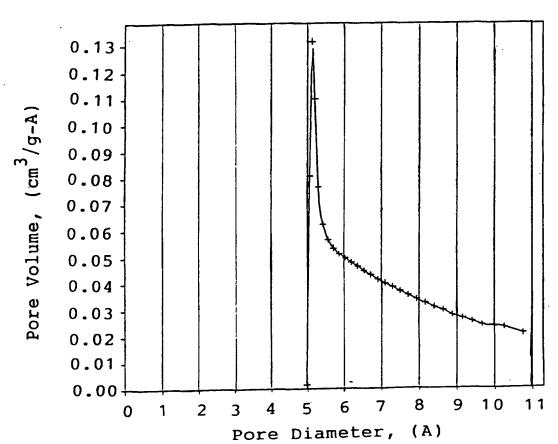
N2 Analysis Adsorptive:

77.30 K Analysis Bath:

No Thermal Correction: No Smoothed Pressures:

57.1148 cm³ Cold Freespace:

 $5.00 \text{ cm}^3 / \text{g STP}$ Low Pressure Dose:



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F1G.2B

Figure 2 B: BJH Desorption dV/dlogD curve for the sample prepared according to example 2.

> Started: 03/18/99 11:49:36 Completed: 03/20/99 02:27:11 Report Time: 03/23/99 08:50:51

Sample Weight: 0.3600 g Warm Freespace: 17.3334 cm

10 secs Equil. Interval:

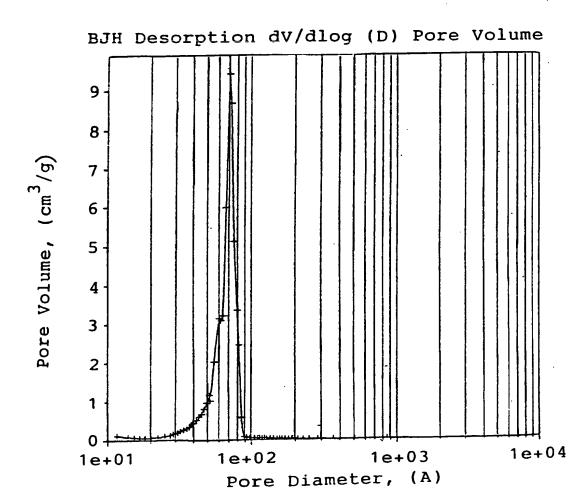
Analysis Adsorptive: N2

77.30 K Analysis Bath:

Thermal Correction: No No Smoothed Pressures:

53.0273 cm³ Cold Freespace:

Low Pressure Dose: 5.00 cm 3 /g STP



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F1G.2C

Figure 2C: Horvath-Kawazoe differential pore volume plot with slit. pore geometry for the sample prepared according to example 2.

> Started: 03/18/99 11:49:36 Completed: 03/20/99 02:27:11 Report Time: 07/14/99 09:17:34

Sample Weight: 0.3600 g Warm Freespace: 17.3334 cm³

Equil. Interval: 10 secs

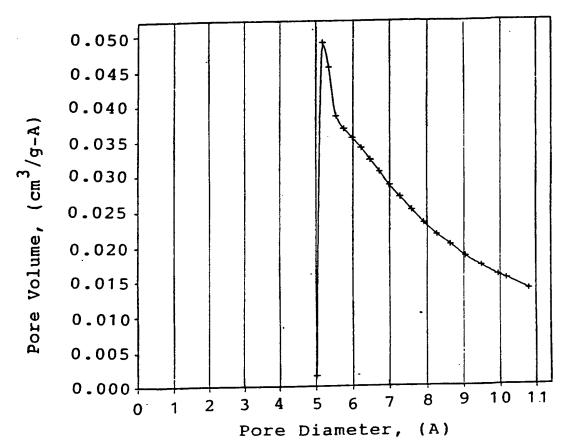
Analysis Adsorptive: N2

Analysis Bath: 77.30 K

Thermal Correction: No Smoothed Pressures: No

Cold Freespace: 53.0273 cm³

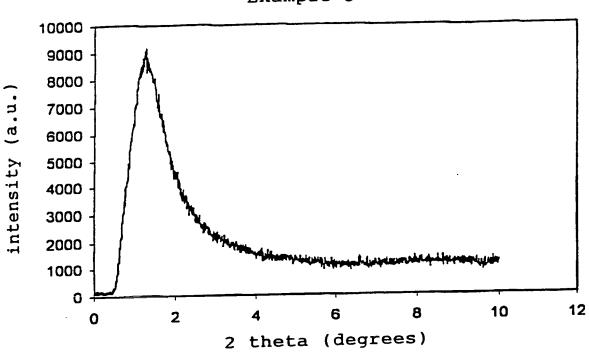
Low Pressure Dose: 5.00 cm³/g STP



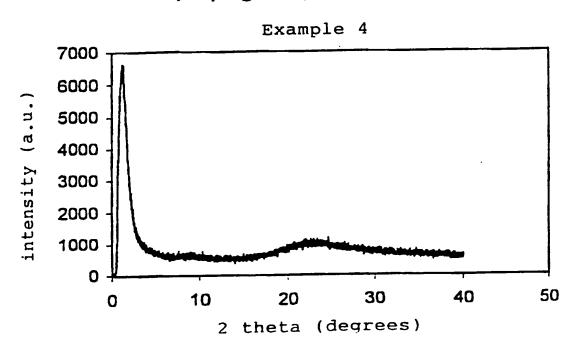
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F1 G. 3 A

Example 3



F1G.4



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^{7/15} FIG. 3B

Figure 3B: BJH Desorption dV/dlogD curve for the sample prepared according to example 3.

Started: 03/15/99 15:50:42 Completed: 03/17/99 07:17:44 Report Time: 04/05/99 14:41:11

Sample Weight: 0.2140 g
Warm Freespace: 18.3702 cm

Equil. Interval: 10 secs

Analysis Adsorptive: N2

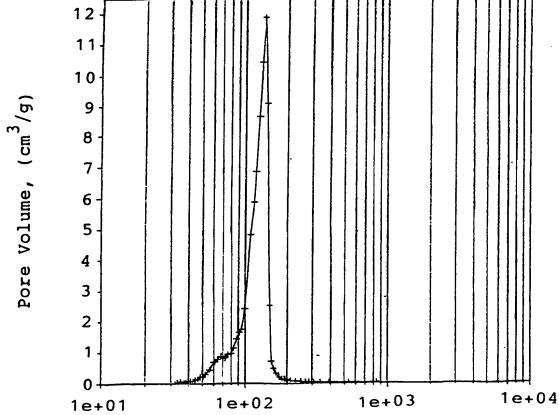
Analysis Bath: 77.30 K

Thermal Correction: No Smoothed Pressures: No

Cold Freespace: 56.4418 cm

Low Pressure Dose: 5.00 cm3 /g STP

BJH Desorption dV/dlog (D) Pore Volume
2



Pore Diameter, (A)

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F1 G. 3C

Figure 3C: Horvath-Kawazoe differential pore volume plot with slit pore geometry for the sample prepared according to example 3.

Started: 03/15/99 15:50:42 Completed: 03/17/99 07:17:44 Report Time: 07/14/99 13:57:02

Sample Weight: 0.2140 g
Warm Freespace: 18.3702 cm³

Equil. Interval: 10 secs

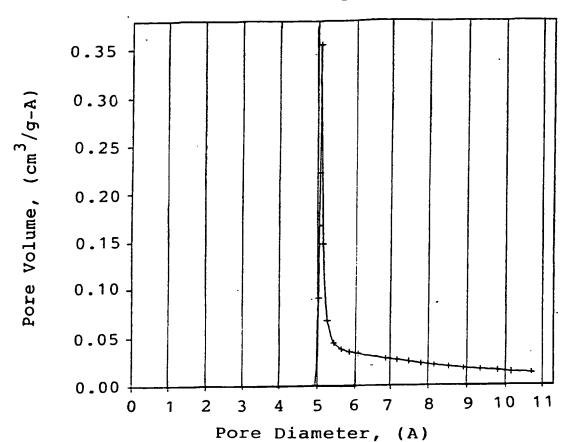
Analysis Adsorptive: N2

Analysis Bath: 77.30 K

Thermal Correction: No Smoothed Pressures: No

Cold Freespace: 56.4418 cm

Low Pressure Dose: 5.00 cm3 /g STP

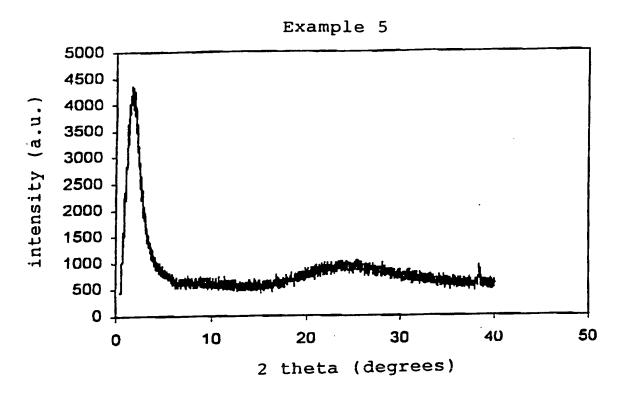


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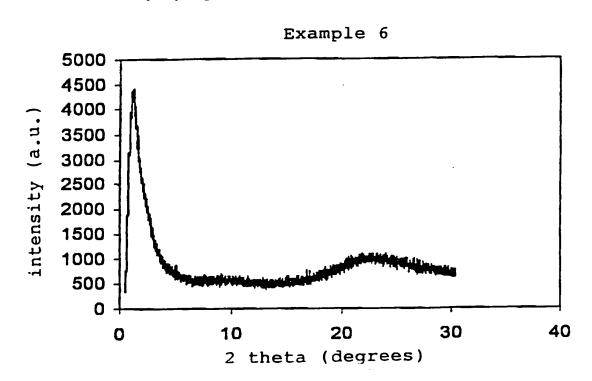
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F1G.5A



F1G.6



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F 1 G: 5 B

Figure 5B: BJH Desorption dV/dlogD curve for the sample prepared according to example 5.

Started: 07/26/99 11:03:10 Completed: 07/27/99 23:22:25

Completed: 07/27/99 23:22:25
Report Time: 07/29/99 16:21:36

Sample Weight: 0.1220 g
Warm Freespace: 18.1883 cm

Equil. Interval: 10 secs

Analysis Adsorptive: N2

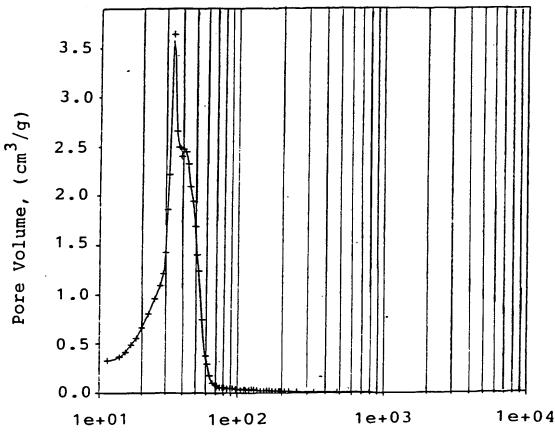
Analysis Bath: 77.30 K

Thermal Correction: No Smoothed Pressures: No

Cold Freespace: 55.4195 cm³

Low Pressure Dose: 5.00 cm³/g STP

BJH Desorption dV/dlog (D) Pore Volume



Pore Diameter, (A)

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FIG.5C

Figure 5C: Horvath-Kawazoe differential pore volume plot with slit. pore geometry for the sample prepared according to example 5.

Started: 07/26/99 11:03:10 Completed: 07/27/99 23:22:25 Report Time: 07/29/99 16:21:36

Sample Weight: 0.1220 g
Warm Freespace: 18.1883 cm

Equil. Interval: 10 secs

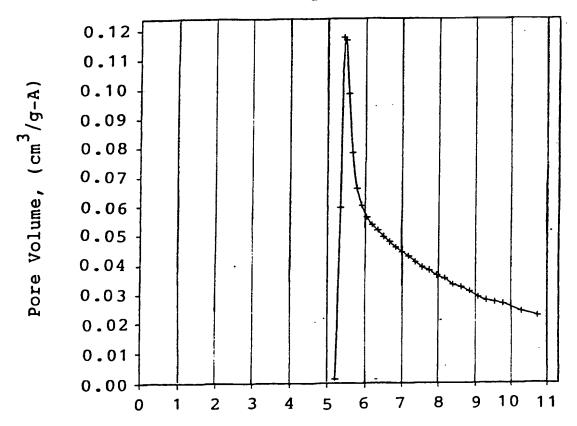
Analysis Adsorptive: N2

Analysis Bath: 77.30 K

Thermal Correction: No Smoothed Pressures: No

Cold Freespace: 55.4195 cm³

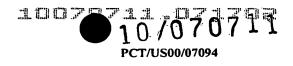
Low Pressure Dose: 5.00 cm³ /g STP

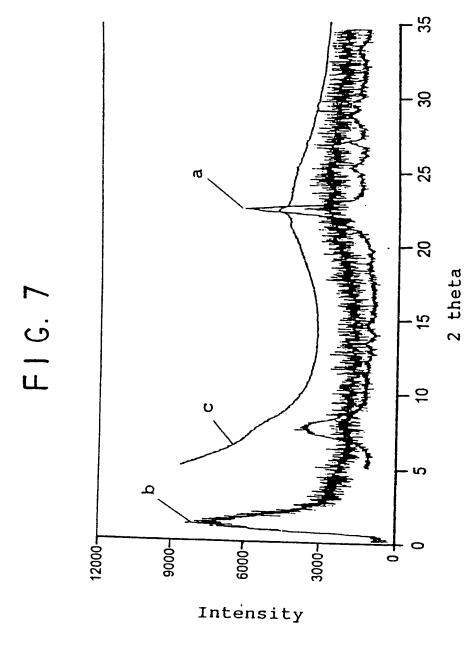


Pore Diameter, (A)

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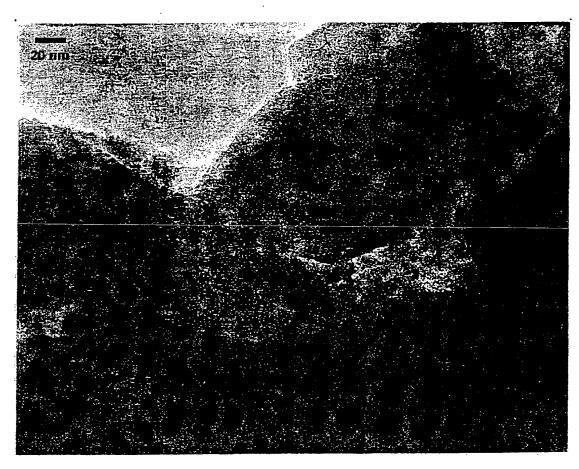




XRD patterns of (a) pure beta zeolite, (b) beta-TUD-1 and (c) high-resolution measurement of beta-TUD-1

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F1 G. 8

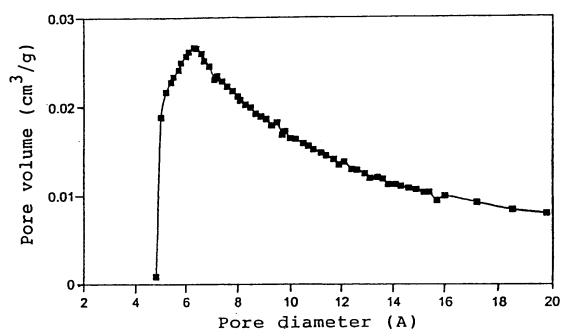


Transmission Electron Microscopy image of the material made in Example 8.

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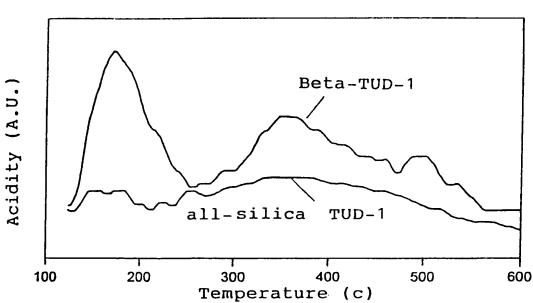
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F1 G. 9



Micropore size distribution of beta-TUD-1.

F1G.10



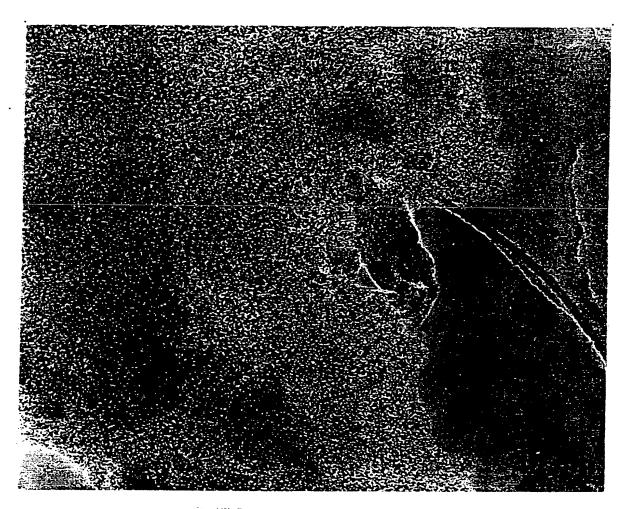
NH₃-TPD of beta-TUD-1 and all-silica mesoporous product as produced in Example 2 ("TUD-1").

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F1 G. 11



Transmission Electron Microscope photograph of the material produced in Example 3.